

## CLIMATOLOGICAL DATA FOR OCTOBER, 1912.

## DISTRICT No. 6, MISSOURI VALLEY.

MONTROSE W. HAYES, District Editor.

## GENERAL SUMMARY.

The weather during the greater part of October was mild in almost all of the district. "Indian summer" prevailed through most of the month, and in the region to the east of the foothills there was more than the normal number of warm, sunshiny days. In the mountain and foothill country, however, the temperatures were lower, and there was somewhat less sunshine and more precipitation than there is in the average October, but notwithstanding this the weather could not be called at all severe for the season. All outdoor pursuits progressed favorably, with the exception of late thrashing in parts of the Dakotas, where local conditions caused this work to be delayed.

## TEMPERATURE.

The mean temperatures for the month were below the normal in Montana, Wyoming, Colorado, and the western counties of the Dakotas, Nebraska, and Kansas. The greatest deficiency was in western Montana and amounted to an average of about 2° a day. To the east of this region, or in practically all the plains and valley country below the foothills, there was a general excess in temperature, but it was not pronounced except in a few limited sections. There were no temperatures reported that may be considered either high or low for the season, consequently the monthly range in temperature was not large, and this is one feature in which the month was rather abnormal, as October usually has a marked temperature range. The warmest weather occurred during the first 6 days, and the coldest was during the last 10 days.

The average temperature from January 1 to October 31 shows a deficiency in all parts of the drainage area. In Colorado, Wyoming, and western Nebraska this deficiency amounts to about 2.5° a day. In the remainder of the district it is not so large, but equals about 1.5° daily.

## PRECIPITATION.

In the mountain and foothill country the precipitation was above the normal. There was also an excess, but not a generally pronounced one, in southeastern Nebraska, eastern Kansas, southwestern Iowa, and in Missouri. Between these two areas the precipitation was deficient. There were two well-defined wet periods, from the 5th to the 11th and from the 26th to the 31st, but in the lower half of the district the amounts were light during the last period. There was general snow in the Mountain States, North Dakota, the western half of South Dakota, and the western counties of Nebraska and Kansas, but east of this region there were scattered flurries only. Most of the snow fell during the latter part of the month, and in parts of the Mountain States it was rather heavy for October.

The total precipitation from January 1 to October 31 was above the normal in most of the territory east of the Missouri River below its confluence with the Big Sioux (at Sioux City, Iowa). It was also above the normal to the west of the 3,000-foot contour, or in most of Montana, Wyoming, Colorado, and in western Kansas and western Nebraska. Between these areas of excessive precipitation the deficiency was general. At St. Louis the excess for the first 10 months of the year was 10.21 inches. This is the greatest departure in the district, considering only the regular stations of the Weather Bureau, and at the other stations the departures, both in the region of excess and that of deficiency, are in most cases within 4 inches of the 10-month normal.

## RIVERS.

The distribution of the rainfall during the last several months has been quite favorable for river interests. The streams have been high enough for navigation, and at the same time they have been sufficiently low to allow the engineering projects along them to be carried forward in a satisfactory manner.

TABLE 1.—Climatological data for October, 1912. District No. 6, Missouri Valley.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, unmelting), Sky (Number of rainy days, Number of clear days, Number of partly cloudy days, Number of overcast days), Prevailing wind direction, and Observers. The table is divided into Wyoming and Montana sections.

TABLE 1.—Climatological data for October, 1912. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.			Number of cloudy days.
<i>Montana—Contd.</i>																				
Browning	Teton	3,980	3	39.7		70	1†	9	30	40	0.72		0.32	6.5	5	10	11	10	w.	U. S. Reclamation Service.
Busby	Rosebud		8	43.3		78	3	16	21	53	1.76		0.72	16.8	8	8	6	8	w.	Rev. G. A. Linscheid.
Busteed	Sweet Grass		4	43.0		80	1†	8	31	48	2.36		0.69	15.5	9	17	10	6	w.	T. H. Busteed.
Cabin Creek	Beaverhead		2								0.95		0.20	21.5	8	14	10	7	s.	W. J. Crowell.
Canyon Ferry	Lewis and Clark	3,644	13	42.4	- 1.0	77	3	10	24	43	1.02	+ 0.32	0.75	4	16	8	7	nw.	A. C. Pratt.	
Cascade	Cascade	3,361	7	44.4		77	3	17	31	42	2.29		0.84	8.5	11	12	10	9	sw.	Dr. E. E. James.
Chessman Reservoir	Lewis and Clark	5,275	3	35.6		67	3	13	31	37	3.52		0.90	37.5	12	18	11	9	sw.	C. D. Schmidt.
Chester	Hill	3,140	8	41.2		77	5	10	21	53	0.25		0.25	5.0	1	16	13	nw.	E. D. Keith.	
Chinook	Blaine	2,502	13	44.9	+ 1.2	78	4	17	30	44	0.88		0.58		4	2	20	9	w.	T. O'Hanlon Co.
Clemons	Lewis and Clark	4,672	2								1.82		0.75	10.5	8	10	8	13	w.	Frank Eberl.
Clydepark	Park		1	38.8		75	1	8	24	49	1.96		1.00	15.0	11	14	7	10	nw.	Frank Taylor.
Conrad	Teton																			Robert J. Kelly.
Copper	Meagher		7								1.20		0.40	15.0	8	16	6	9	w.	Orville Harris.
Crow Agency	Rosebud	3,041	29	44.1	- 2.9	76	18	17	31	51	2.78	+ 1.64	0.98	4.2	7	20a	10a	10a	nw.	Harry Throssell.
Culbertson	Valley	1,927	9	43.4		76	1†	21	19	44	0.50		0.20	T.	3	16b	11b	nw.	G. H. Coulter.	
Cut Bank	Teton	3,700	13	48.5	+ 8.3	79	29	20	31	48	0.20	- 0.72	0.20		1	21	5	5	w.	Chas. N. Thomas.
Denton	Fergus	3,500	3	45.0		80	3	19	31	38	1.07		0.59	7.1	6	15	4	12	w.	P. J. Griesenauer.
Dillon	Beaverhead	5,147	14	43.0	- 2.1	70	1†	8	31	48	1.41	+ 0.48	0.44	10.4	10	14	5	12	sw.	Prof. J. E. Monroe.
Dry Creek	Broadwater	5,500	2								3.61		1.08	24.0	7	12	5	11	sw.	J. C. Stuart.
Dry Wolf Camp	Cascade	6,000	3								2.05		0.90	19.2	8	20	5	6	sw.	Mrs. H. R. Eveleth.
Dunkirk	Teton	3,293									0.12		0.06	T.	2	24	1	6	w.	B. C. Protzman.
East Gallatin River	Gallatin	6,000	3								2.60		0.52	29.0	10	13	6	12	w.	John Eberhart.
Ekalaka	Custer		11	45.2	+ 0.5	80	1	15	30†	40	2.18	+ 1.55	0.72	4.1	5	15	6	7	w.	William Freese.
Elkhorn	Jefferson	6,576	3								1.30		0.41	13.6	12	10	10	11	w.	James Heagan.
Fallon	Custer	2,208	7	44.4		82	1	15	30	56	3.38		1.96	T.	2	21	4	6	w.	Mrs. A. C. Gifford.
Findon	Meagher	6,000	3								1.13		0.41	7.6	11	16	5	10	w.	Lewis Cameron.
Fish Creek	Silver Bow	8,500	2	31.7		56	3	4	31	26	2.98		43.6	8	11	10	10	w.	O. B. Tilton.	
Flathead Creek	Gallatin	6,000	1	39.5		73	4	8	24	41	2.11		0.60	7.0	8	11	4	16	nw.	Alta Williams.
Forsyth	Rosebud	2,514	5	45.6		81	3	13	31	55	2.84		1.80	T.	3	16	4	11	w.	H. Mackenzie.
Fort Benton	Chouteau	2,630	32	45.8	+ 1.1	74	2†	20	31	40	0.88	+ 0.25	0.33	T.	3	18	7	6	sw.	Jeru Sullivan.
Fort Shaw	Cascade	3,500	23	45.0	+ 0.8	70	13†	17	31	41	1.12	+ 0.55	0.54	6.4	6	14	9	8	sw.	U. S. Reclamation Service.
Fort Harrison	Lewis and Clark	4,004	8	43.4	- 0.1	78	3	18	30†	40	2.57		0.89	T.	7	20	11	6	w.	Post Hospital.
Foster	Yellowstone		2	45.3		80	3†	20	25	50	5.00		0.89	T.	7	20	3	8	w.	E. K. Bowman.
Garnett	Fergus	5,500	3	34.6		62	16	9	22†	46	2.15		0.60	12.0	9	12	10	9	sw.	Thos. E. Scally.
Glasgow	Valley	2,092	15	42.2	- 0.2	78	1	14	31	47	0.07	- 0.68	0.05	T.	2	12	9	10	w.	W. M. Leonard.
Glendive	Dawson	2,069	21	46.6	+ 0.8	81	1	15	30†	54	1.90	+ 1.05	0.92	4.0	4	12	12	7	s.	E. C. Leonard.
Goldbutte	Hill		4	41.4		72	3	14	21†	42	0.03		0.03	0.2	1	15	8	8	w.	Joseph Berthelote.
Graham	Custer		6	46.8		85	16	17	20	58	2.04		1.19	1.1	7	15	6	10	nw.	J. S. Rue.
Graying	Gallatin	6,700	6	33.0		67	1	2	31	49	2.16		0.80	7.0	9	6	11	14	sw.	T. Kerzenmacher.
Great Falls	Cascade	3,350	20	46.2	- 0.6	72	3	22	31	33	0.85	+ 0.21	0.41	0.4	6	9	16	6	sw.	Robert Deardorf.
Halfway House	Broadwater	6,000	2								2.26		0.60	9.8	7	16	6	9	sw.	Gordon Deans.
Harlowton	Meagher	4,165	4	42.0		82	3	4	31	60	0.76		0.50	0.1	2	14	2	15	w.	Joseph Muir.
Have	Hill	2,505	32	43.2	- 0.4	77	3	19	30	40	0.51	+ 0.26	0.49	2.2	6	14	5	12	sw.	U. S. Weather Bureau.
Helena	Lewis and Clark	4,110	32	42.1	- 1.9	76	3	19	31	38	1.51	+ 0.69	0.59	5.5	8	11	8	12	sw.	Do.
Highwood	Chouteau		5								3.76		1.05	11.2	8	15	1	15	sw.	W. S. McCord.
Huntley	Yellowstone	3,014	6	45.4		80	1	13	31	49	3.32		1.19	16.9	7	21	5	5	w.	U. S. Reclamation Service.
Jones Canyon	Gallatin	6,800	3								3.51		0.66	34.5	9	9	11	11	w.	James McCune.
Jordan	Dawson		6	45.2		78	2	14	19	53	0.40		0.40	4.0	1				nw.	W. C. Henderson.
Knobles Ranch	Hill		1								0.77		0.25	7.5	6	17	5	9	w.	F. H. Knobles.
Lewistown	Fergus	4,010	14	40.2	- 3.1	78	1	2	31	46	2.03	+ 0.84	0.60	14.0	7	12	7	12	w.	W. T. Watson.
Lonetree	Chouteau	3,280	6	46.8		80	3	20	31	44	1.70		0.70	3	20	4	7	7	w.	E. Wilson.
Lytle	Teton		4	43.5		75	3	18	31	34	0.82		0.39	4.2	5	23	2	6	sw.	J. F. Pait.
Malta	Valley	2,240	5	44.4		80	3	17	21†	48	0.12		0.05	T.	3	16	5	10	w.	U. S. Reclamation Service.
Medicine Lake	do		1	42.9		78	1	12	31	50	0.33		0.33	T.	1	15	4	12	s.	J. S. Collier.
Mildred	Custer		3								2.60		1.17	5.0	5	13	14	4	nw.	Leon B. Clark.
Miles City	do	2,371	20	46.1	- 0.4	78	3	35	28	42	2.61	+ 1.85	1.50	0.7	5	17	8	6	ne.	U. S. Weather Bureau.
Norris	Madison	4,845	5	43.2		70	1†	20	31	33	2.41		0.69	15.1	7	14	3	14	s.	Madison River Power Co.
Nye	Sweet Grass		3																	F. L. Bryant.
Olsen Creek	Jefferson	6,345	3								2.45		1.00	2.1	11	10	12	9	w.	Robert Olsen.
Pinegrove	Musselshell																			G. A. Woodcock.
Pipestone Pass	Jefferson	7,000	3								2.44		0.95	31.0	8	13	7	11	w.	Mrs. T. Keirmeyer.
Plevna	Custer	2,757		43.2		80	1	4	31	47	2.33		1.26	7.7	4	21	3	7	nw.	C. C. Conser.
Poplar	Valley	2,020	26	45.7	+ 1.9	87	1	19	30	57	T.	- 0.71	T.	T.	0	23	3	5	w.	H. M. Cosier.
Red Lodge	Carbon	5,548	12	37.2	- 5.5	75	1	5	31	37	2.95	+ 1.55	0.93	21.7	7	12	9	10	se.	I. A. Draper.
Renova	Jefferson	4,383	13	41.7	- 2.2	75	3	17	21	44	2.25	+ 1.38	1.09	2.0	8	14	9	8	sw.	F. B. Elmer.
Ryegate	Musselshell	3,640	2	45.8		90	15	12	21†	70	2.21		0.65	7.0	7	19	0	12	w.	H. Scherfenberg.
Savage	Dawson	2,050	6	45.6		84	1	18	31	52	1.78		1.14	3.0	3	16	9	6	nw.	U. S. Reclamation Service.
Shelby	Teton	3,276																		C. D. Kicher.
Sidney	Dawson		1	44.6		74	1	22	22†	43	1.93		1.00	4.0	3	18	5	8	s.	Fred W. Arndt.
Springbrook	do		10	44.9	+ 0.7	80	1	15	21	47	1.40	+ 0.52	0.60	8.0	4	10	4	17	sw.	Mrs

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Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days, Number of partly cloudy days, Number of cloudy days), Sky, Prevailing wind direction, Observers. The table is divided into North Dakota and South Dakota sections.



TABLE 1.—Climatological data for October, 1912. District No. 6—Continued.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days), Sky (Number of partly cloudy days, Number of cloudy days), Prevailing wind direction, and Observers. The table lists data for numerous stations in Nebraska, including Bertrand, Blair, Bloomfield, and many others.

TABLE 1.—Climatological data for October, 1912. District No. 6—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast cloudy days.		Prevailing wind direction.	
<b>Nebraska—Continued.</b>																					
St. Paul	Howard	1,796	18	54.0	+ 0.7	86	5	23	30	49	0.59	- 1.39	0.31	T.	4	27	2	2	se.	Paul Anderson.	
Santee	Knox	25	25	54.8 <sup>d</sup>	+ 2.2	89 <sup>d</sup>	5	24 <sup>d</sup>	22	41 <sup>d</sup>	0.95	- 1.05	0.83	T.	0	28	1	2	sw.	George MacGregor.	
Sargent	Custer	2,339	19	54.1	.....	89	5	21	22 <sup>a</sup>	49 <sup>a</sup>	1.55	+ 0.54	1.45	T.	3	22	3	5	s.	J. L. Ferguson.	
Schuyler	Colfax	1,357	19	54.8	- 0.2	84	4	21	22	53	1.46	+ 0.55	0.39	T.	4	19	9	3	nw.	R. O. Brownell.	
Scottsbluff	Scotts Bluff	3,888	24	55.8	+ 1.3	86	11	26	30	49	5.05	+ 0.62	2.85	T.	4	16	9	3	nw.	A. B. McCoskey.	
Seward	Seward	1,435	22	55.8	+ 1.3	86	11	26	30	49	5.05	+ 0.62	2.85	T.	4	16	9	3	nw.	C. B. & Q. R. R. Co.	
Sidney	Cheyenne	4,090	20	52.4	+ 1.8	85	4	26	22 <sup>a</sup>	40	2.74	+ 0.83	1.30	T.	0	17	8	13	sw.	John P. Fischer.	
Springfield	Sarpy	1,052	1	51.2	- 0.2	87	5	19	22	47	1.45	+ 0.76	1.45	T.	0	21	9	1	sw.	Miss Stella Vennum.	
Springview	Keyapaha	20	20	51.2	- 0.2	87	5	19	22	47	1.45	+ 0.76	1.45	T.	0	21	9	1	sw.	F. V. Bishop.	
Stanton	Stanton	1,472	21	54.3	- 0.3	89	5	24	30	43	4.00	+ 1.74	1.65	T.	6	22	3	6	se.	W. N. Hunter.	
Stratton	Hitchcock	2,804	17	54.3	- 0.3	89	5	24	30	43	3.76	+ 1.14	0.93	T.	0	22	2	6	n.	E. D. Howe.	
Superior	Nuckolls	1,574	29	53.0	- 0.3	88	5	25	30	41	2.23	+ 0.29	1.13	T.	0	19	6	6	nw.	L. E. Pratt.	
Syracuse	Otoe	1,059	20	55.2	+ 0.3	88	5	26	30	49	3.07	+ 0.85	2.10	T.	0	22	3	6	nw.	Dr. A. D. Nesbit.	
Table Rock	Pawnee	1,023	23	49.2	+ 0.7	85	4	21	30	43	1.07	+ 0.25	1.02	T.	4	19	9	3	w.	S. W. Ferin.	
Tecumseh	Johnson	1,113	21	49.2	+ 0.7	85	4	21	30	43	1.07	+ 0.25	1.02	T.	4	19	9	3	w.	U. S. Weather Bureau.	
Tekamah	Burt	1,060	21	51.6	- 0.1	86	5	21	30	48	1.28	+ 0.82	1.19	T.	0	25	4	2	s.	W. T. Mauck.	
University Farm	Lancaster	28	28	51.6	- 0.1	86	5	21	30	48	1.28	+ 0.82	1.19	T.	0	25	4	2	s.	I. H. Weaver.	
Valentine	Cherry	2,613	24	51.6	- 0.1	86	5	21	30	48	1.28	+ 0.82	1.19	T.	0	25	4	2	s.	E. W. Rossiter.	
Wahoo	Saunders	1,187	10	51.1 <sup>k</sup>	.....	90	5	16	29	54 <sup>p</sup>	1.50	.....	0.73	T.	0	1	3	10	1	s.	R. E. Swift.
Wakefield	Dixon	1,387	19	51.1 <sup>k</sup>	.....	90	5	16	29	54 <sup>p</sup>	1.50	.....	0.73	T.	0	1	3	10	1	s.	C. D. Fuller.
Walthill	Thurston	9	9	54.0	.....	88	5	27	22 <sup>a</sup>	45	3.91	+ 1.62	1.56	T.	8	21	2	8	s.	S. W. Orton.	
Watertown	Buffalo	2,299	7	54.9	+ 1.0	89	5	22	24	44	1.74	+ 0.08	1.74	T.	0	1	26	1	nw.	J. C. Elliott.	
Wauwata	Chase	2,935	14	54.9	+ 1.0	89	5	22	24	44	1.74	+ 0.08	1.74	T.	0	1	26	1	nw.	F. C. Evans.	
Weeping Water	Cass	1,080	34	55.0	+ 1.0	88	5	24	22	44	3.28	+ 1.09	1.57	T.	0	23	4	4	sw.	A. T. Giauque.	
Westpoint	Cuming	1,313	25	55.0	+ 1.0	88	5	24	22	44	3.28	+ 1.09	1.57	T.	0	23	4	4	sw.	A. T. Giauque.	
Wisner	do	1,380	16	55.0	+ 1.0	88	5	24	22	44	3.28	+ 1.09	1.57	T.	0	23	4	4	sw.	A. T. Giauque.	
York	York	1,633	25	55.0	+ 1.0	88	5	24	22	44	3.28	+ 1.09	1.57	T.	0	23	4	4	sw.	A. T. Giauque.	
<b>Iowa.</b>																					
Afton	Union	1,212	18	52.8	- 0.5	81	5	18	31	29	3.67	+ 1.05	1.43	T.	7	20	5	6	sw.	N. W. Rowell.	
Allerton	Wayne	10	10	55.5	+ 1.3	89	5 <sup>†</sup>	25	30	36	3.39	+ 1.37	1.54	T.	8	23	3	5	s.	Maude Chase.	
Alton	Sioux	1,035	7	50.7	.....	86	5	20	30	39	1.89	.....	1.86	T.	0	18	8	5	sw.	W. S. Slagle.	
Atlantic	Cass	1,164	21	52.9	+ 1.3	86	5	25	30	38	4.38	+ 1.86	1.88	T.	11	19	3	9	sw.	Thomas H. Whitney.	
Audubon	Audubon	1,301	18	51.6	+ 0.7	82	5	26	30	35	3.97	+ 1.81	2.10	T.	0	23	1	7	sw.	George E. Kellogg.	
Bedford	Taylor	12	12	54.0	- 0.3	87	5	23	30	43	3.43	+ 1.15	1.32	T.	0	23	2	6	s.	E. E. Healy.	
Centerville	Appanoose	2	2	54.4	.....	90	5	27	23	46	2.17	.....	1.00	T.	4	27	0	4	w.	Gordon Peacock, jr.	
Chariton	Lucas	1,042	17	54.0	- 0.2	88	5	24	22 <sup>a</sup>	48	3.66	+ 1.30	2.05	T.	0	23	1	7	sw.	A. C. Burr.	
Clarinda	Page	1,009	22	51.8	- 2.2	88	5	26	30 <sup>†</sup>	46	3.18	+ 0.68	1.15	T.	8	20	2	9	s.	C. S. Van Sandt.	
Corning	Adams	1,117	20	52.5	- 0.8	86	5	24	30	36	3.77	+ 1.44	1.55	T.	6	19	5	7	nw.	Jerome Smith.	
Corydon	Wayne	1,101	19	55.0	+ 0.2	87	5 <sup>†</sup>	25	30	36	3.52	+ 1.03	1.66	T.	0.5	19	5	7	nw.	May C. Miller.	
Council Bluffs	Pottawattamie	2	2	52.1 <sup>a</sup>	.....	87	5	22	30	43	2.69	.....	2.00	T.	6	18	5	8	sw.	B. W. Crossley.	
Creston	Union	1,312	7	52.4	.....	86	5	24	31	40	3.85	.....	1.56	T.	0	19	3	9	sw.	O. J. Colby.	
Cumberland	Cass	13	13	52.4	.....	86	5	24	31	40	3.85	.....	1.56	T.	0	19	3	9	sw.	J. H. Reppert.	
Denison	Crawford	1,180	18	52.2 <sup>c</sup>	+ 1.4	84	5	21	30	36	2.64	+ 0.61	1.60	T.	0	23	2	6	sw.	W. C. Van Ness.	
Elliott	Montgomery	7	7	53.8	+ 2.9	86	5	26	30	39	3.12	+ 0.80	1.28	T.	0	14	6	11	se.	C. H. Westrope.	
Greenfield	Adair	20	20	52.2	- 0.9	83	5	23	30	33	3.33	+ 1.06	1.70	T.	6	18	6	7	sw.	R. B. Oldham.	
Harlan	Shelby	1,182	13	51.8	- 1.0	84	5	25	30	37	4.00	+ 1.24	2.10	T.	7	17	7	7	nw.	C. A. Reynolds.	
Inwood	Lyon	1,474	8	50.2	.....	82	5	16	30	42	1.31	.....	1.31	T.	0	18	6	7	sw.	F. B. Hanson.	
Lake Park	Dickinson	1,479	5	50.6	.....	87	5	19	30	39	1.17	.....	1.17	T.	0	26	1	4	s.	A. E. Woodruff.	
Lamoni	Decatur	1,120	5	53.6	.....	83	5	27	23 <sup>b</sup>	36	3.35	.....	1.82	T.	0	21	0	10	s.	T. J. Fitzpatrick.	
Larrabee	Cherokee	1,266	22	49.2	- 1.1	84	5	18	30	44	2.22	+ 0.10	2.00	T.	0	22	5	4	nw.	R. C. Carnahan.	
Le Mars	Plymouth	1,224	16	51.1	- 0.2	83	5	21	30	34	2.05	+ 0.16	2.04	T.	0	24	5	2	s.	G. A. C. Clarke.	
Lenox	Taylor	1,250	17	53.4	- 0.2	84	5	26	30	33	3.63	+ 1.10	1.38	T.	9	23	1	7	sw.	J. L. Hurler.	
Leon	Decatur	1,120	10	54.3	+ 0.7	85	5	27	30	35	1.55	- 0.53	0.50	T.	6	18	4	9	s.	Morris Gardner.	
Little Sioux	Harrison	7	7	54.6	.....	88	5	21	30	40	2.72	.....	1.86	T.	0	23	2	6	nw.	George H. Gibson.	
Logan	do	928	45	53.2	+ 1.0	86	5	25	30	34	3.30	+ 0.91	1.75	T.	0	19	6	6	sw.	Glenn H. Stern.	
Mount Ayr	Ringgold	1,236	19	54.8	- 0.1	87	5	27	30	32	3.66	+ 1.40	1.95	T.	8	23	2	6	s.	Alex Maxwell.	
Murray	Clarke	21	21	54.0	- 0.2	86	5	26	30	30	4.96	+ 2.72	1.80	T.	0	20	5	6	s.	N. T. Ashley.	
Northboro	Page	15	15	55.0	.....	87	5	27	30	38	3.07	.....	1.37	T.	9	20	3	8	se.	J. M. Darby.	
Odebolt	Sac	15	15	52.4	- 0.5	86	5	21	30	44	1.90	- 0.15	1.20	T.	0	25	2	4	.....	E. Starnor.	
Onawa	Monona	1,051	12	54.2	- 0.6	86	5	25	30	36	2.01	- 0.38	1.40	T.	0	22	5	4	s.	C. G. Perkins.	
Pacific Junction	Mills	960	13	52.6	- 1.8	86	5	25	30	36	4.71	+ 2.41	1.70	T.	7	18	7	6	s.	H. H. McCartney.	
Rock Rapids	Lyon	1,358	13	46.4	- 0.6	70	2 <sup>†</sup>	24	21	42	1.35	- 0.66	1.35	T.	0	19	8	4	s.	W. C. Wyckoff.	
Sheldon	O'Brien	1,422	12	51.0	- 0.4	81	2	17	30	40	1.95	- 0.64	1.90	T.	0	3	16	8	7	sw.	George Aupperle.
Sibley	Osceola	1,212	19	48.9	- 0.7	86	5	17	30	42	1.45	- 0.64	1.40	T.	0	22	2	7	sw.	H. G. Doolittle.	
Sioux Center	Sioux	13	13	50.5	- 0.5	85	5	20	30	33	1.15	- 1.03	1.15	T.	0	1	.....	.....	s.	J. de Ruyter.	
Sioux City	Woodbury	1,135	23	52.6	+ 1.5																

TABLE 1.—Climatological data for October, 1912. District No. 6—Continued.

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Total snowfall, Number of rainy days, Number of clear days, Number of partly cloudy days, Number of cloudy days), Sky, Prevailing wind direction, Observers. Rows are categorized by Kansas and Missouri.

•, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
† Also on other dates.
‡ All temperature normals for Montana used in this table have been reduced to the 33-year period.
T. Precipitation is less than 0.01 inch rain or melted snow.



TABLE 2.—Daily precipitation for October, 1912. District No. 6—Continued.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>Montana—Contd.</i>																																			
Cascade.....	Missouri.....			.84	.13	.03		.11	.47									.04	.03	.08		T.					.01	.51	.04				2.29		
Chessman Reservoir	do.....			.71	.80	.10		.10	.74									.12	.02	.08				.25				.40	.16	.04			3.52		
Chester.....	Marias.....								.25																								0.25		
Chinook.....	Milk.....			.18				.03	.58										.09														0.58		
Clemens.....	Missouri.....			.75	.22	T.		.03	.13									.12	T.	.01													1.82		
Clydepark.....	Yellowstone.....			.10	1.00			.02	.14									.06		.03				.07	.19			.49	T.	.05	.03		1.96		
Conrad.....	Marias.....																																		
Copper.....	Missouri.....			.40	.35	.01		T.	T.											.07	T.			.12			.05	.08	.12	T.			1.20		
Crow Agency	Bighorn.....			T.	.98	.72			T.	.18														.13				.07	.48		.22		2.78		
Culbertson.....	Missouri.....										.20																							0.50	
Cut Bank.....	Marias.....																																	0.20	
Denton.....	Missouri.....			.24	.10	T.		.04	.08																									1.07	
Dillon.....	Jefferson.....			.21	.18			.09	.44																.02									1.41	
Dry Creek.....	Missouri.....		T.	.91	.40			.10																										3.61	
Dry Wolf Camp.....	do.....			.30	.74			.07																										2.05	
Dunkirk.....	Marias.....																																	0.12	
East Gallatin River	Gallatin.....	T.		.50	.52	.10		T.	.16																									2.60	
Ekakaka.....	L. Missouri.....							.67	.72				.08																					2.18	
Elkhorn.....	Jefferson.....			.41	.07	.10		.17	.02									.02																1.30	
Fallon.....	Yellowstone.....				1.42	T.																												3.38	
Findon.....	Missouri.....			.25	.26	.03		.03	T.																									1.13	
Fish Creek.....	Jefferson.....			*.17	.75	.03		.03	T.	.30																								2.98	
Flathead Creek.....	Yellowstone.....			.60	.30	T.		.01	.12																									2.11	
Forsyth.....	do.....				.94	.10																												2.84	
Fort Benton.....	Missouri.....							.30	T.																									0.88	
Fort Shaw.....	do.....							.04	.08																									1.12	
Foster.....	Bighorn.....			.30	.40	.20		.89	.19	*																								2.57	
Garnell.....	Missouri.....			.30	.40	.20			.40	.10																								2.15	
Glasgow.....	Milk.....																																	0.07	
Glendive.....	Yellowstone.....			.02				.05	.12																									1.90	
Goldbutte.....	Marias.....																																	0.03	
Graham.....	Powder.....																																	2.04	
Graying.....	Madison.....							.19	.14																									2.16	
Great Falls.....	Missouri.....							.24	.20																									0.85	
Half Way House.....	do.....							.41	.06																									2.26	
Harlowton.....	do.....							.60																										0.51	
Havre.....	Milk.....							.50	T.																									0.76	
Helena.....	Missouri.....							.20	.27	.22																								1.51	
Highwood.....	do.....							.89	.01																									3.76	
Huntley.....	Yellowstone.....		.98					.70	.20																									3.32	
Jones Canyon.....	Gallatin.....							.44	.77	.22																								3.51	
Jordan.....	Missouri.....							.66	.55																									0.40	
Knobles Ranch.....	Milk.....							.08																										0.77	
Lewistown.....	Missouri.....							.57																										2.03	
Lonetree.....	do.....							.70																										1.70	
Lytle.....	do.....							.20																										0.82	
Malta.....	Milk.....							.03																										0.12	
Medicine Lake.....	Missouri.....																																	0.33	
Mildred.....	Yellowstone.....																																	2.60	
Miles City.....	do.....																																	2.61	
Norris.....	Madison.....																																	2.41	
Nye.....	Yellowstone.....																																		2.45
Olsen Creek.....	Jefferson.....																																	2.44	
Pinegrove.....	Missouri.....																																	2.33	
Pipestone Pass.....	Jefferson.....																																	T.	
Plevna.....	Yellowstone.....																																		T.
Poplar.....	Missouri.....																																		T.
Red Lodge.....	Yellowstone.....																																		T.
Renova.....	Jefferson.....																																		T.
Ryegate.....	Missouri.....																																		T.
Savage.....	Yellowstone.....																																		T.
Shelby.....	Marias.....																																		T.
Sidney.....	Yellowstone.....																																		T.
Springbrook.....	do.....																																		T.
Stearns.....	Missouri.....																																		T.
Sunlit Farm.....	Milk.....																																		T.
Sun River Canyon.....	Missouri.....																																		T.
Trail Creek.....	Yellowstone.....																																		T.
Utica.....	Missouri.....																																		T.
Valentine.....	do.....																																		T.
Valier.....	Marias.....																																		

TABLE 2.—Daily precipitation for October, 1912. District No. 6—Continued.

Stations.	Watershed.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
<i>North Dakota—Con.</i>																																					
Hettinger	Grand																																				
Howard (near)	Missouri		T.			.50	.27		.01	.02		.01	T.					T.								T.											
Jamestown	James						.01																														
Lamoine	Missouri											T.	.12																								
McHenry (near)	James																																				
Marmarth (near)	L. Missouri		.03			.11	.67			.03		.04	.02																								
Marstonmoor	James		T.			T.	.08			T.		T.																									
Medora	L. Missouri		T.			*	.96			T.		T.																									
Melville	James					T.	.18																														
Mott	Cannon Ball		T.			.12	.04																														
Napoleon	Missouri																																				
New England	Cannon Ball		.04			.41	.04																														
New Rockford	James					.32				.03		.04																									
New Salem	Heart		T.			.06				T.		T.	.01	.01																							
Orange	Cannon Ball						.13																														
Ranger	L. Missouri																																				
Steele	Missouri			T.		T.				T.		T.																									
Turtle Lake	do					.09	.06			.01		.02																									
Washburn	do									T.		T.																									
Williston	do		.01			.81	.01			T.		.03																									
<i>South Dakota.</i>																																					
Aberdeen	James						.22			T.		T.	T.	T.	T.																						
Academy	Missouri					T.						.03	.47	T.																							
Ardmore	Cheyenne																																				
Armour	Missouri																																				
Bellefourche	Cheyenne					.33																															
Brookings	Big Sioux			.02			.42			.11			.41																								
Bryant	do																																				
Camp Crook	L. Missouri		T.			.38	.16	T.		T.		.04																									
Canton	Big Sioux												1.15																								
Cascade Springs	Cheyenne					T.	T.					.12																									
Castlewood	Big Sioux		T.			T.	.09	T.		.04	T.	T.	.25	.01																							
Centerville	Missouri					.02							1.22																								
Chamberlain	do																																				
Clark	James		T.			.13				.03		T.	.08	T.																							
Cottonwood	Missouri											.04																									
Custer	Cheyenne					.11																															
Daviston	Owl																																				
Deadwood	Cheyenne					.40	.20					.25																									
Deerfield	do					.28	.04					.10	.13	T.																							
De Smet	James					.30																															
Dowling	Cheyenne																																				
Dumont	do					.44	.09																														
Eagle Butte	Grand																																				
Eales	Missouri					T.	T.																														
Elk Mountain	Cheyenne					.32	.03					.12																									
Ellingson	Grand					.13	.07					T.	T.	T.																							
Englewood	Cheyenne		.05			.03	.05			.10	.05																										
Eureka	Missouri					.02	T.																														
Fairfax	do												.15																								
Faulkton	James									.12		.04																									
Flandreau	Big Sioux									.15		.65																									
Forestburg	James									.02			.17																								
Fort Meade	Cheyenne					.10	.30					.10																									
Frederick	James		T.			.08						T.	T.	T.																							
Greenmont	Cheyenne					.21						.20																									
Greenwood	Missouri											T.	.50																								
Hardingrove	Cheyenne											.02																									
Hardy Ranger Sta.	do																																				
Harveys Ranch	do					.12	.10					.02	T.																								
Hermosa	do		T.			.05	T.					.04																									
Highmore	Missouri												.15																								
Hopewell	Cheyenne											.03																									
Howard	Missouri											.09																									
Howell	James					T.	.06					T.	.12																								
Huron	do					.02				.05	T.	T.	.16	T.																							
Ipswich	do					.05				.08	T.																										
Kadoka	White																																				
Kennebec	Missouri												.40																								
Kidder	James																																				





TABLE 2.—Daily precipitation for October, 1912. District No. 6—Continued.

Stations.	Watershed.	Day of month.																														Total.									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31								
<i>Iowa.</i>																																									
Afton	Grand		.10			T.		.40	.90	.12	1.43																							T.	3.67						
Allerton	Chariton		.05					.86	.51	.05	1.54																							.07	3.39						
Alton	Floyd							.03			1.86																							T.	1.89						
Atlantic	Nishnabotna		.11	.01			.03	.19	.63	.02	1.88																							.05	3.38						
Audubon	do		.10	.02				.15	.05	.15	2.10																							.05	3.97						
Bedford	Missouri		.10					.55	.70	.26	1.32																							.05	3.43						
Centerville	Chariton							1.00	.37	.50																								T.	2.17						
Chariton	do							.40	.48	T.	2.05																								.05	3.43					
Clarinda	Nodaway			.13			.20	.22	.88		1.15																								T.	3.18					
Corning	do		.18				T.	.28	1.13	.28	1.55																								.01	3.77					
Corydon	Chariton		T.	.06				.87	.46	.05	1.66																								.03	3.52					
Cottrell Bluffs	Missouri		.12				.03	.15			2.00																								T.	2.69					
Creston	do			.15			.06	.30	1.56	.01	1.30																								.06	3.85					
Cumberland	Nodaway		.01					.03	.84	.19	1.62																									T.	2.90				
Dumrison	Missouri							.02	.76		1.60																										2.64				
Elliott	Nishnabotna		T.					T.	1.25	.30	1.28																										3.12				
Greenfield	Nodaway		.18					.36	.90	.15	1.70																									T.	3.33				
Harlan	Nishnabotna		.18				T.	.11	.71	.34	2.10																									T.	4.00				
Inwood	Big Sioux										1.31																									T.	1.31				
Lake Park	Little Sioux										1.17																									T.	1.17				
Lanoni	Grand		.05					.62	.31	.14	1.82																									T.	3.35				
Larrabee	Little Sioux										2.00																									.02	2.22				
Le Mars	Floyd							T.			2.04																									T.	2.05				
Lenox	Missouri		.10				.05	.35	1.10	.23	1.15																									.01	3.63				
Leon	Grand			T.				.30	.50	.25	1.00																										T.	1.55			
Little Sioux	Little Sioux							T.	.52	.04	1.86					.01																				.03	2.72				
Logan	Missouri		T.					.92	.32	1.75																										.10	3.30				
Mount Ayr	Grand		.08				T.	.38	.72	.20	1.75																										T.	3.66			
Murray	do		.08					.44	1.57	.10	1.70																										.02	4.96			
Northboro	Missouri		.05				.03	.03	.34	.84	.37	1.00																									T.	3.07			
Odeboit	Little Sioux							.35	.35	.35	1.20																										.04	1.90			
Onawa	Missouri							.10	.15	.05	1.40																										.08	2.01			
Pacific Junction	do		.08					.08	1.62	.65	1.32																										T.	4.71			
Rock Rapids	Big Sioux										1.35																										.48	1.35			
Sheldon	Floyd							.03			1.90																										T.	1.95			
Sibley	Big Sioux							.05			1.34																										.06	1.45			
Sioux Center	Floyd										1.15																											T.	1.15		
Sioux City	Missouri							.03	T.	.23	1.26																										T.	1.58			
Spencer	Little Sioux										1.63																												1.78		
Thurman	Missouri		T.					.30	.70	.11	1.58																										T.	5.39			
Washta	Little Sioux							T.			1.40																										T.	1.54			
<i>Kansas.</i>																																									
Abilene	Smoky Hill							.12			.04	1.18																									.34	1.68			
Agricultural College	Kansas			.02				.60		.75	1.35																										T.	.65	5.37		
Alton	Solomon		.08					.75	.75	.38	.05																										T.	.08	1.34		
Atchison	Missouri		.01	.05				.63		.10	1.96																										T.	.25	3.00		
Beloit	Solomon		.04				T.	.06	1.08	1.52	.02																										T.	.03	2.75		
Blakeman	Republican							.15	.08	.39																												T.	.61	1.13	
Blue Rapids	Blue		T.	T.				.63	.05	.52	.92																											.07	2.52		
Centralia	do							.66	.05	.52	.92																											T.	.25	2.37	
Chapman	Smoky Hill		T.					.30	T.		2.25																											T.	.30	2.85	
Clay Center	Republican							.30		.82	.35																												.85	2.57	
Colby	do									.12	.07																											.02	54.76		
Concordia	do		T.					1.82		.70	.07																											.45	.01	04.31	
Densmore	Solomon		T.					.18		T.	.81																											.02	.70	1.16	
Dresden	Republican									.05	.41																											T.	.20	0.91	
Ellsworth	Smoky Hill								T.	.69																													.44	2.14	
Emmett	Kansas			T.				.34	T.	.08	1.28																											T.	.36	2.56	
Enterprise	Smoky Hill							.09	.05	1.06	1.00																												T.	1.80	8.62
Eskridge	Osage		.02					.68		.03	6.00																												T.	.12	24.05
Farnsworth	Smoky Hill							.12		.03	.05																												.01	.80	4.12
Fort Scott	Osage			.11			.44	T.		.76	.05																												.05	1.66	4.12
Frankfort	Blue		.03					.33	.07	1.15	.63																												T.	2.69	
Garnett	Osage		T.																																						

TABLE 2.—Daily precipitation for October, 1912. District No. 6—Continued.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>Kansas—Contd.</i>																																		
Valley Falls.....	Kansas.....		.05						.52		.42	2.60										.01											.38	
Vinland.....	do.....		.19						.05		1.44											.04											1.70	
Wakeeney.....	Smoky Hill.....		.02						.13		.09	.16																					.25	
Wallace.....	do.....																																	
Wamego.....	Kansas.....		T.						T.	.10	.05	1.40	T.									T.											.63	
<i>Missouri.</i>																																		
Amoret.....	Osage.....		T.						T.		.83	.06										.15											2.56	
Appleton City.....	do.....			.06					1.03		.78									.08		.36	.27				.02						.20	
Arthur.....	do.....								T.		1.22	.33										.62	.08										1.10	
Avalon.....	Grand.....			.33								2.30																					.63	
Bethany.....	do.....																																	
Bollivar.....	Osage.....								.04		.05	4.05								.20		.36											1.62	
Boonville	Missouri.....			.13					.04		.78	.36									T.		1.35			.02							1.58	
Brunswick	Grand.....			.20					T.	.04	.33	.05											.82										.70	
Clinton.....	Osage.....						.55				1.50											.12											2.20	
Columbia.....	Missouri.....		.04	.06			.29		.06	.01	.92	.14								T.	.12	.70	.10										.32	
Crocker.....	Gasconade.....			.10					.06	T.										.18		1.17											1.32	
Eldon.....	Osage.....			.08				.20			1.29	.19											1.47											2.10
Eldorado Springs.....	do.....								1.90	T.											.52		1.47										2.00	
Fayette.....	Missouri.....		.13						.01		.38	.18									T.	.04											T.	
Fulton.....	do.....								.27		1.15											.37											1.68	
Glasgow	do.....			.24							T.	.20											.11		1.55								.57	
Grand City.....	Grand.....			T.					.60	.70	1.75											.15	.18				.15						.20	
Harrisonville	Osage.....			.12					.01		T.	.18	.29	.07								T.											1.35	
Hazelhurst.....	Grand.....			.01					.15		.20	1.57										T.												.60
Hermann	Missouri.....			.08					.06		.02	.60	.32	.04								.18	.42										T.	
Houston.....	Gasconade.....								.10	T.	T.	.40										.07											1.22	
Jefferson City	Missouri.....				.05				.51		.71	.20	.25									.65	.20										2.10	
Kansas City.....	do.....			.06	.03				.02		.01	.99	.19										.12										.61	
Kidder	Grand.....			.17					.01	.10		2.00											.75	.05									.28	
Lamonte.....	Missouri.....								T.	T.	1.00	T.										T.		.95				T.					1.65	
Lebanon.....	Osage.....								.27	.10	.85	.11										.08											1.43	
Lexington	Missouri.....			.14								.62											.81										.85	
Liberty.....	do.....			T.					T.	T.		2.33																					1.10	
Lockwood.....	Osage.....																																	
Marshall.....	Missouri.....			T.	.13					T.	.33		.03									T.											1.28	
Maryville	do.....										.55	.75		2.85																			4.62	
Mount Vernon.....	Osage.....									T.	.02	.90	T.										.06										.69	
Nevada.....	do.....			T.						T.	2.67		2.50																				1.17	
Oregon.....	Missouri.....			.01							1.61																							.24
Patfonsburg	Grand.....																																	
Rolla.....	Gasconade.....										.04	.34																						
St. Charles.....	Missouri.....								T.																								1.16	
St. Joseph.....	do.....									.60	1.58	.50										T.											1.22	
St. Louis (1).....	Mississippi.....			.10	.01				T.	.35	.17	T.										.14	.05										1.38	
St. Louis (2).....	do.....				.01				T.	.02	.16	.09											.36	.18										1.30
Sublett.....	Chariton.....											3.00																					1.47	
Tarkio.....	Missouri.....								.08	1.32	.36	1.20																						.25
Trenton.....	Grand.....			.27					.06	.99	.08	2.12	.20										.45											T.
Unionville	Chariton.....				.35				.06	1.25		2.80	.12														.04						.11	
Warrensburg.....	Missouri.....			.04						T.	T.	.64	.31										T.											1.93
Warrenton	do.....				.06					.05		.53	.24	.13																				1.30
Warsaw.....	Osage.....				.25						.32	T.	T.	1.32								.14	.50										T.	
Wheatland.....	do.....				.10			.10				1.25																						.65

\* Precipitation included in that of the next measurement.  
 † Separate dates of falls not recorded.  
 ‡ Precipitation for the 24 hours ending on the morning when it is measured.  
 T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for October, 1912. District No. 6, Missouri Valley.

Table with columns for Date, Wyoming (Basin, Cheyenne, Fort Laramie, Lander, Newcastle, Pathfinder, Sheridan, Yellowstone Park), and Montana (Billings, Dillon, Havre, Helena, Lewistown, Malta). Rows 1-31 and monthly means.

Table with columns for Date, Montana (Miles City, Poplar, Berthold Agency), North Dakota (Bismarek, Dickinson, Jamestown, Williston, Aberdeen), South Dakota (Huron, Kadoka, Kimball, Lemmon, Pierre, Rapid City). Rows 1-31 and monthly means.

TABLE 3.—Maximum and minimum temperatures at selected stations for October, 1912. District No. 6—Continued.

Table with columns for Date, South Dakota (Sioux Falls, Watertown, Yankton), Colorado (Denver, Wray, Alma, Bridgeport, Grand Island, Hay Springs, Hebron, Lincoln), and Nebraska (North Platte, Oakdale, Omaha). Rows show daily temperature data from Oct 1 to Oct 31, including means.

Table with columns for Date, Iowa (Valentine, Clarinda, Sibley, Sioux City, Colby, Concordia), Kansas (Salina, Topeka, Wakeeney, Columbia), Missouri (Kansas City, St. Louis, Unionville). Rows show daily temperature data from Oct 1 to Oct 31, including means.

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record. § § Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.